Memo

QC

Quality Control

\*105568\*

Page 1

August-08-13 8:58:58 AM \*N900040100\* Accept Setup Start Item ID: D3017-7 **Revision ID:** Stop Item Name: Lug \*12\* Start Qty: 12.00 Start Date: 8/08/13 Cust Item ID: Required Date: 8/08/13 Req'd Qty: 12.00 \*12\* Customer: Reference: Run Process Plan: MLJ Date: 13-08-08 Tooling: Date: Approvals: Stop SPC (Y/N): Date: QC: Date: Reject Reject Tool # Plan Accept Insp. Operation Set Up/ Tool ID Sequence ID/ Qty Qty Number Stamp Work Center ID Description Code **Run Hours** Revision Nbr Draw Nbr Rev B D3017 0.00 100 FLOW WATER JET 24 \*100\* 0.00 Waterjet Memo 1-Cut as per Dwg D3017 FLOW CNC Waterjet Dwg Rev: B Prog Rev: 8 2-Deburr 0.00 QC2- Inspect parts off machine FAI/FAIB 110 24 \*110\*

0.00

Date: DQA: **WORK ORDER NON-CONFORMANCE / UPDATE** NCR: Yes / No QA Closed: Date: AGAINST DEPARTMENT/PROCESS DISPOSITION Work Order: Skid-tube Crosstube Water Jet Engineering Rework Machining Small Fab Prod. Eng. Coor. Quality Part No. Scrap Use-as-is Thermoforming Finishing Rec/Store/Packaging Other Work Order Update Large Fab Composite Supplier NCR No. Description of work order update Action Initial Sign & Root Qty or Non-conformance Chief Eng Description Date Verification QC Inspector Date Step Cause Doc/Data Equip/Tooling Operator Material Setup Other Process Supplier Training

			FAULT CATEGORY		
Landi	ng Gear	General			
	Bending	Bend	Grain	Ovalized	Pressure/Forced
-	Centre Not Concentric to O/S	BOM/Route	Hardware	Over/Under tolerance	Temperature/Cure
	Cracks	Broken/Damaged	Inspection Incomplete	Part Incorrect	Weld
	Crushed/Crimped	Burrs	Instructions Incomplete	re/Unclear Part Lost/Missing	Wrong Stock Pulled
	Cuffs	Contamination	Maintenance	Part Moved	
	Heat Treat	Countersink	Mislabeled	Positioned Wrong	
	Inspection Strip in Tube	Cut Too Short	Misread	Power Loss/Surge	Other
	Ripples in Bend	Drill Holes	Offset		
	Torque Waves in Extrusion	Drawing	Out of Calibration		
	Turning Sequence	Finish	Out of Sequence	2	
	Wave/Twist in Tube	Folio	Outside Dimensions		

EALILY CATEGORY

Unapproved

Quality Control

Memo

Work Order ID 105568  August-08-13 8:58:58 AM				*105568*						Pa			
Revision ID:	03017-7 ug				Accept	*	N900	040	100	)* s	Stop		S1* S2*
	/08/13	Start Qty: 12.00		*12*			Cust Item I	D:					
Required Date: 8/	/08/13	Req'd Qty: 12.00		*12*			Customer:						
Reference:					1							-	
Approvals: I	Process Pla	in:	Date:		Tooling:		Da	ate:		F	Run Star		R1*
	QC:		Date:		SPC (Y/N):		Da	ate:			Stop	*N	R2*
Sequence ID/ Work Center ID	38	Operation Description			Set Up/ Run Hours		Tool ID	Tool#	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
120		QC8- Inspect parts - secon	nd check		0.00					011			
*120*					drie					24,			
QC		Memo			0.00	13			(	Count		42	
Quality Control					.3					and .		-79	
130					0.00		- 4						11
*130*		NC BRAKE								23		/	1/3/
Brake NC		Memo			00.0							- 7	1 10
Brake NC		1-Deburr											/ 18
		2-Form as pe	r Dwg D301	7 using DT98.	35								
140		QC5- Inspect part comple	teness to ste	p on W/O	0.00					22			
*140*						8				23			
QC		Memo			0.00	214							

			DQA:	Date:	'	
NCR:	Yes / No	WORK ORDER NON-CONFORMANCE / UPDATE				
			OA Closed:	Date		

										QA Closed:	Date	
Work Orde	r:				DISPOSITION				AGAINST D	PARTMENT	/PROCESS	
Part No					Rework Scrap Use-as-is Work Order Update	Th	Mad ermofo	d-tube chining crming ge Fab	Crosstube Small Fab Finishing Composite	_	Water Jet d. Eng. Coor. re/Packaging Supplier	Engineering Quality Other
Root	T			Descri	ption of work order update	Initia	al	Ac	tion	Sign &		
Cause	Date	Step	Qty		or Non-conformance	Chief E	Eng	Desc	ription	Date	Verification	QC Inspector
Doc/Data												
Equip/Tooling	1											
Operator												
Material		1					,					
Setup						1 4	Per l					
Other						* 3						
Process												
Supplier												
Training												
Unapproved								esa um				
						AULT CA	ATEGO	RY				
Landin	ng Gear			_	General				_	1		1
	Bending			_	Bend	Gra			_	Ovalized		Pressure/Forced
	Centre N	ot Conce	ntric to (	D/S	BOM/Route		dware	2 8	_	Over/Under	<u> </u>	Temperature/Cure
	Cracks			_	Broken/Damaged			ncomplete		Part Incorred	_	Weld
	Crushed/	Crimped			Burrs			Incomplete/	Unclear	Part Lost/Mi	ssing	Wrong Stock Pulled
	Cuffs			_	Contamination	7 (0.5)	intenar	ice	-	Part Moved		
-	Heat Tre			_	Countersink		labeled		_	Positioned V		7
	Inspectio	11 20 20 20 20 20	Tube		Cut Too Short	$\overline{}$	read			Power Loss/	Surge	Other
	Ripples in				Drill Holes	Offs						
	_	Vaves in I		٦	Drawing		of Calib					
		Sequence		_	Finish		of Sequ			-		
	Wave/Twist in Tube				Folio	Out	side Din	nensions				

Page 3

Work Order ID 105568 \*105568\* August-08-13 8:58:58 AM Item ID: D3017-7 Accept \*N900040100\* Setup Start Revision ID: Item Name: Lug \*12\* Start Qty: 12.00 Start Date: 8/08/13 Cust Item ID: Required Date: 8/08/13 Req'd Qty: 12.00 \*12\* Customer: Reference: Start Run Tooling: Approvals: Process Plan: Date: Date: Stop SPC (Y/N): QC: Date: Date: Reject Tool # Plan Sequence ID/ Operation Set Up/ Tool ID Accept Reject Number Stamp Qty Work Center ID Description Run Hours Code Oty 150 0.00 Packaging \*150\* Packaging 0.00 Memo Identify and bag with light oil (Vactra oil #2), then Stock Packaging Location: Wa co

0.00

0.00

QC21- Final Inspection - Work Order Release

Memo

160

QC

\*160\*

Quality Control

MLJ 13-08-15

Insp.

DQA: Date: WORK ORDER NON-CONFORMANCE / UPDATE NCR: Yes / No QA Closed: Date: AGAINST DEPARTMENT/PROCESS DISPOSITION Work Order: Skid-tube Engineering Crosstube Water Jet Rework Small Fab Prod. Eng. Coor. Quality Machining Part No. Scrap Thermoforming Finishing Rec/Store/Packaging Other Use-as-is Large Fab Composite Supplier NCR No. Work Order Update Description of work order update Initial Action Sign & Root Qtv Chief Eng Description Date Verification QC Inspector or Non-conformance Date Step Cause Doc/Data Equip/Tooling Operator Material Setup Other Process Supplier Training Unapproved **FAULT CATEGORY Landing Gear** General Bend Pressure/Forced Grain Ovalized Bending BOM/Route Over/Under tolerance Temperature/Cure Centre Not Concentric to O/S Hardware Broken/Damaged Inspection Incomplete Part Incorrect Weld Cracks Wrong Stock Pulled Instructions Incomplete/Unclear Part Lost/Missing Crushed/Crimped Burrs

Maintenance

Out of Calibration

Out of Sequence

Outside Dimensions

Mislabeled

Misread

Offset

Part Moved

Positioned Wrong

Power Loss/Surge

Other

Contamination

Countersink

Cut Too Short

**Drill Holes** 

Drawing

Finish Folio

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

Ripples in Bend

**Turning Sequence** 

Wave/Twist in Tube

Cuffs

Heat Treat

Inspection Strip in Tube

Torque Waves in Extrusion

August-08-13 8:58:57 AM

Work Order ID:

105568

Parent Item:

D3017-7

Parent Item Name:

Lug

Start Date: 8/08/13

Required Date: 8/08/13

Start Qty: 12.00

Required Qty: 12.00

Comments:

IPP: B03.05.09ReformatKJ/RF

IPP Rev:C 08-04-11 now made on water jet DD verified by:EC

IPP RevB: as per

revB DD verified by:JLM

Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID			Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
ALLEY.	Purchased	No			100	sf	124.1903	0.102	1.2884208			16
			Location		Loc Qty	Lo	oc Code					13.08
			MAT020	12	124.190263							
	Sht		1230	049	17.340263 102.65			124	1283 -	-> 2	.6	
	The state of the s	Item ID Purch	Purch Item  Purchased No	Purch Item Location  Purchased No  Location  MAT020  1161 1230	Purch Item Location Location  Purchased No  Location  MAT020  11612 123049	Purch   Item   Location   Location   Seq ID	Purch   Item   Location   Location   Seq ID   Measure	Item ID         Purch         Item         Location         Location         Seq ID         Measure         Hand           Purchased         No         100         sf         124.1903           Location         Loc Oty         Loc Code           MAT020         124.190263         124.190263           11612         4.2         17.340263	Purch   Item   Location   Location   Seq ID   Measure   Hand	Purch   Item   Location   Location   Seq ID   Measure   Hand   Qty	Purch   Item   Location   Location   Seq ID   Measure   Hand   Qty   Issued	Purch   Item   Location   Location   Seq ID   Measure   Hand   Qty   Issued   Issued

DQA: Date: WORK ORDER NON-CONFORMANCE / UPDATE NCR: Yes / No QA Closed: Date: AGAINST DEPARTMENT/PROCESS DISPOSITION Work Order: Engineering Skid-tube Water Jet Crosstube Rework Prod. Eng. Coor. Quality Part No. Machining Small Fab Scrap Thermoforming Rec/Store/Packaging Other Finishing Use-as-is NCR No. Work Order Update Large Fab Composite Supplier Description of work order update Sign & Action Initial Root Verification QC Inspector Chief Eng Date or Non-conformance Description Date Step Qty Cause Doc/Data Equip/Tooling Operator Material Setup Other Process Supplier

## **FAULT CATEGORY Landing Gear** General Bend Grain Ovalized Pressure/Forced Bending BOM/Route Over/Under tolerance Temperature/Cure Centre Not Concentric to O/S Hardware Broken/Damaged Inspection Incomplete Part Incorrect Weld Cracks Wrong Stock Pulled Instructions Incomplete/Unclear Part Lost/Missing Crushed/Crimped Burrs Maintenance Part Moved Cuffs Contamination Countersink Mislabeled Positioned Wrong Heat Treat Misread Power Loss/Surge Other Inspection Strip in Tube Cut Too Short Ripples in Bend **Drill Holes** Offset Out of Calibration Torque Waves in Extrusion Drawing Out of Sequence **Turning Sequence** Finish Folio **Outside Dimensions** Wave/Twist in Tube

Training Unapproved

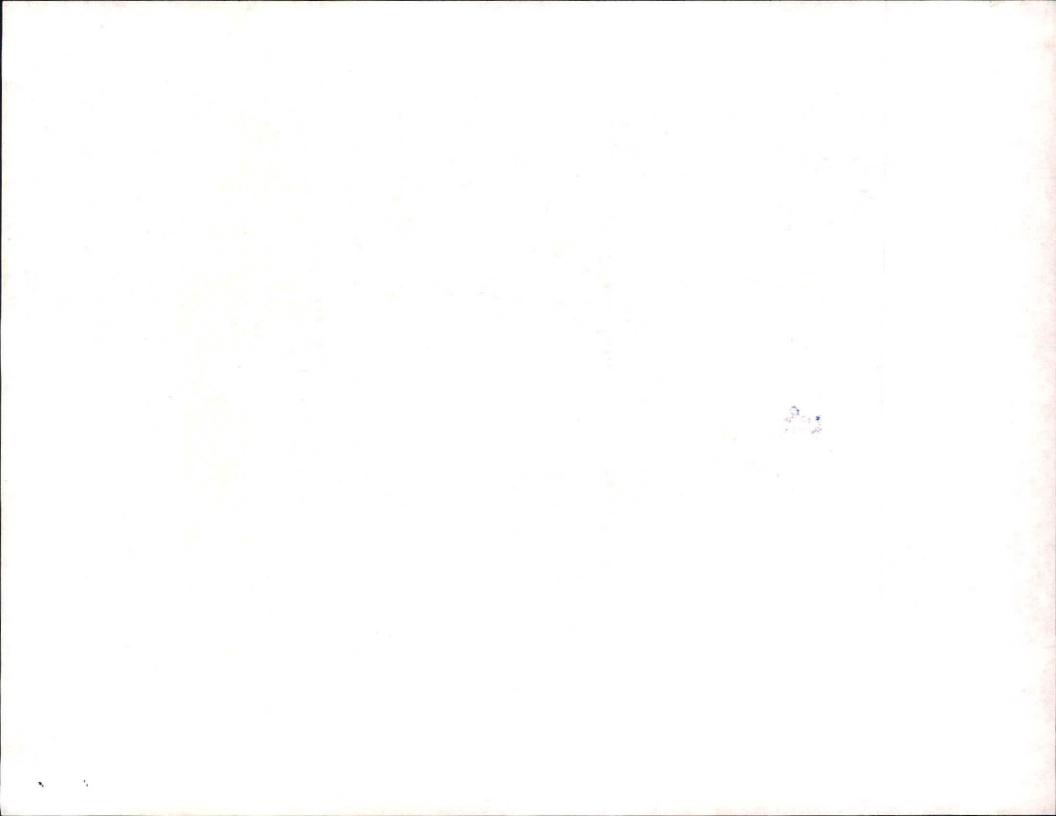
DART AEROSPACE LTD	Work Order:	105568
Description: Lug	Part Number:	D3017-7
Inspection Dwg: D3017 Rev: B		Page 1 of 1

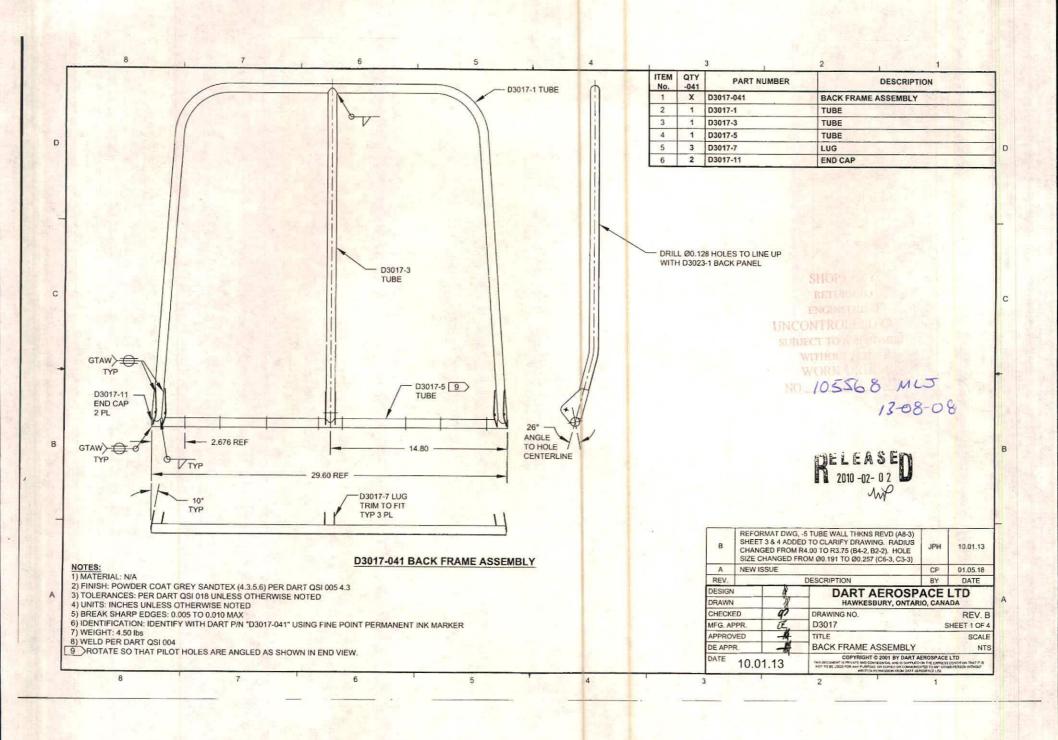
## FIRST ARTICLE INSPECTION CHECKLIST

Drawing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comments
R0.25	+/-0.030	.25	4 70		RG	
2.063	+/-0.010	2.063	-	The last	V	JKM-01
2.500	+/-0.010	2.504			V	Total Manager
Ø0.191	+0.005/-0.000	.190	-		V	
						THE RESERVE
	13.79	f- "		<b>FERR</b>		
				7		
				DEC ST		
		THE THE SHE	- 1	24 1	AF DOT	M. Super Co.
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400				14.8		

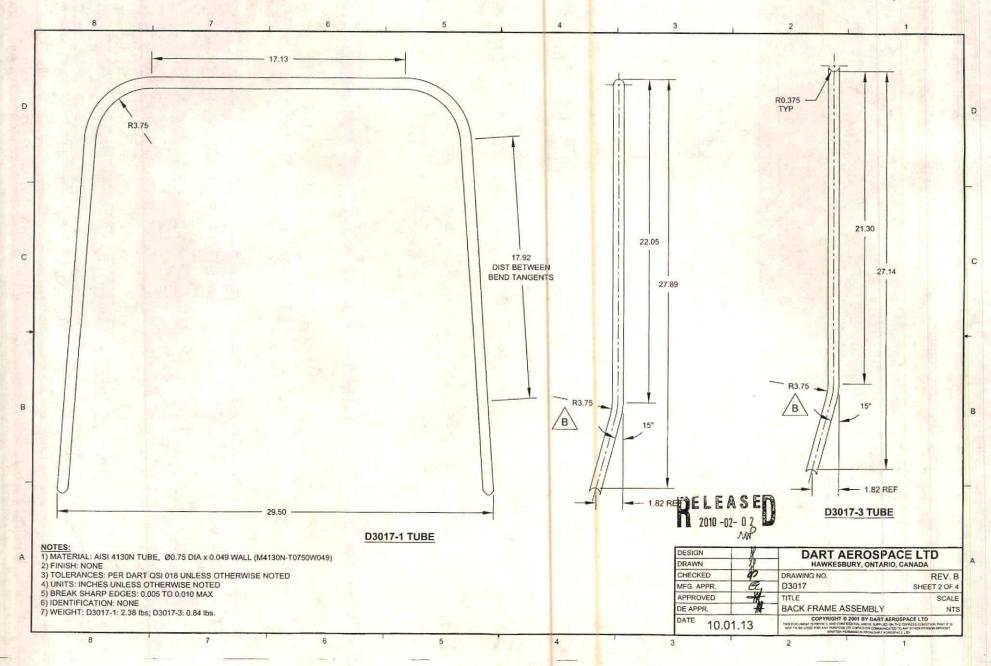
Measured by:	1e	Audited by:	27		Preliminary Approval:	119
Date:	13'08.13	Date:	13.8.	13	Date:	

Rev	Date	Change	Revised by	Approved
Α	05.03.04	New Issue	KJ/JLM A	11
В	11.06.21	Dwg Rev updated	KJ del	6/11

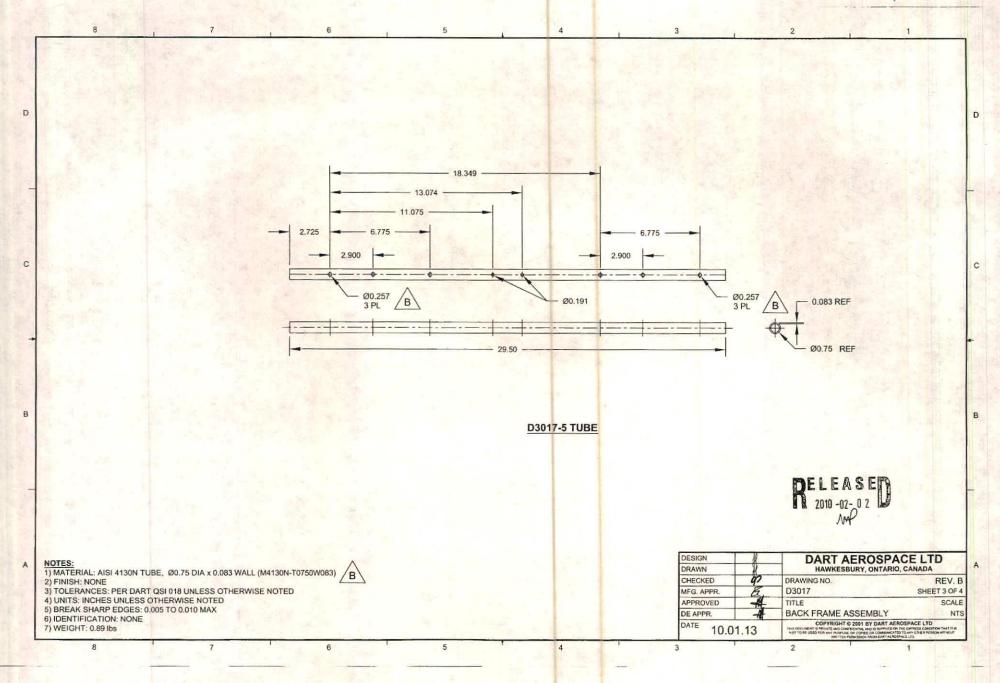




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